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### **ABSTRACT**

This document describes an experimental program which is designed to help students from grade 5 to grade 7 who are working at or slightly below grade level maintain mathematics skills. Students receive nine home-study packets containing two to four lessons each. Parents must make a commitment to supervise the home-study. The 25 lessons presented in grade 5 cover topics such as: (1) addition, subtraction, multiplication and division of whole numbers; (2) addition and subtraction of fractions; (3) measurement; and (4) word problems. (PK)

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GRADE 5



Please, read the directions carefully. You may want to do this several times. Then look at the example which is worked out for you. Try it on your own to see if you get the same answer. After this you will be ready to work the other exercises. Repeat this process on each section.

GOOD LUCK!



### Lesson One

WELCOME to MATH BY MAIL!! We hope you'll work hard but also will have fun. GOOD LUCK!

To the Parent: Please help your child get started on each packet and check the lessons to see if they've been completed before they are mailed. If you or your child does not understand the instructions or if help is needed in understanding the mathematics have your child call the math teacher.



- I. In this lesson you will
  - . identify even and odd numbers
  - . round numbers

EVEN or ODD

Even numbers are whole numbers divisible by 2. Odd numbers are not divisible by 2.

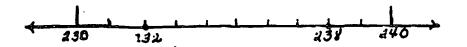
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4			L		1_		1	<u> </u>		!	;		<b>-</b>
•	0	/	2	3	+	5	6	7	8	. 9	10	"	•
		odd		odd		odd		odd		odd		odd	
Eve	n or	odd?											
1.	36	even		7.	100	)			13.	2 X 3	33	even	٠,٠
2.	15			8.	102	!			14.	2 X 4	7		
3.	13			9.	105	j			15.	2 X 8	80		
4.	20			10.	231				16.	1002			
5.	19			11.	232				17.	2361			
6.	25			12.	233	}			18.	4173			

Hampton City Schools Mathematics Department

Lesson One

## II. ROUNDING To the nearest 10

In making an estimate we can round to the nearest 10.



232 is closer to 230 (4 or less - round down) 238 is closer to 240 (5 or more - round up)

### Round to the nearest 10

	numbe	r rounded to the nearest 10
	5 <b>5</b>	60
	93	90
	384	380
	496	500
1.	22	
2.	18	<del></del>
3.	54	ANTONIO TO ANTONIO TO TANDO
4.	183	
5,	69	
6.	846	
7.	908	

### Round to the nearest 100

147	100
686	700
3961	4000
350	400
8. 7609	

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Lesson One

II. ROUNDING Continued:

9. 1163

10. 851 \_\_\_\_\_

11. 756

12. 2638

13. 1800

14. 931

Round to the nearest 1000

7,269 7,000

29,898 30,000

15. 675,423

16. 2,650 \_\_\_\_\_

17. 380,500

18. 593,579

19. 43,296

20. 1,900

21. 85,382

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-3-

Lesson One



### LESSON TWO

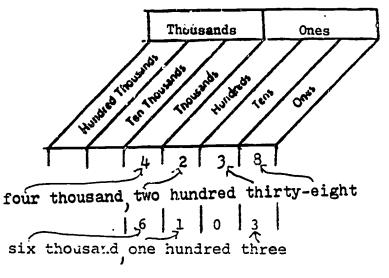
To the PARENT: In this lesson your child will: Write word names for numbers.

LOOK over the place value chart.

Then read the two examples.



My name is three!!



NOW try the following.

I.	Write	word	names	for	the	following
----	-------	------	-------	-----	-----	-----------

1.	6,380	Sex Morestand , exice hundred eighty	
2.	8,002		
3.	5,030		
4.	4,063		
5.	7,7%		,.· ——
6.	822		
7.	84		
8.	189	· · · · · · · · · · · · · · · · · · ·	
9.	3,087		: 
10.	6,700		

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Lesson Two

	NAME
Write the number for each	
Eight hundred six	
Seven thousand, seven	7,007
Three thousand, four hundred	<del></del>
Two hundred thirty-nine	
Four thousand, twenty	
Five thousand, sixty-three	
One hundred ninety nine	<del></del>
Five thousand, fifteen	
Eight thousand, three hundred	
Twenty-nine	
Two hundred ten	
BUILD the number that has:	
Thousands .	1 4 1

#### 22. BUILD the number that has:

11. Eight hundred six

12. Seven thousand, seven

15. Four thousand, twenty

17.

18.

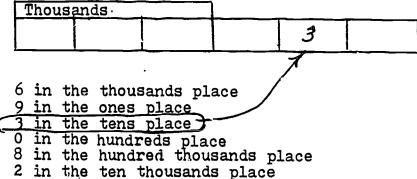
19.

20.

21.

13. Three thousand, four hundre

16. Five thousand, sixty-three



#### Write the number for: 23.

Four hundred twenty-two thousand, nine hundred two

Hampton City Schools Mathematics Department Lesson Two -2-



NAME	

II. Circle the digit in the indicated place. Look back at the place value chart if you have trouble. (Write number on answer sheet.)

- 1. 18, 307 thousands
- 2. 89,286 ones
- 3. 428,327 ten thousands
- 4. 5, 784 tens
- 5. 1,378,255 hundred thousands
- 6. 6,875 tens
- 7. 1,036 hundreds
- 8. 32,866 thousands
- 9. 82,300 hundreds
- 10. 596 ones

9

### LESSON THREE

TO THE PARENT: In this lesson your child will add whole numbers. Please have your child review the basic addition facts. Use the enclosed basic fact sheet as a 3 minute timed test.



Add the ones; leave the tens unchanged.

Add the ones. Change 15 to 1 ten and 5 ones. Write 5 in the ones place. Add the 1 ten to 7.

Add the ones. Change 12 to 1 ten and 2 ones. Write 2 in ones place. Add the 1 ten to 9. Change 10 to 1 ten and 0 ones. Write the 0; add the 1 in hundreds place.

#### I. Try These

Hampton City Schools Mathematics Department Lesson Three

10

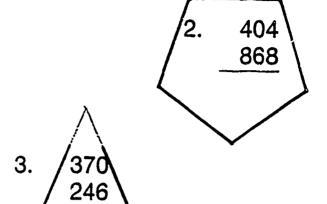
NAME\_\_\_\_

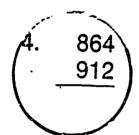
II. Example: Add 357 + 639 + 128

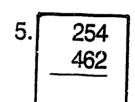
Try These !!!!

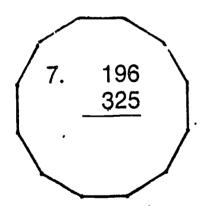
Hampton City Schools Mathematics Department Lesson Three

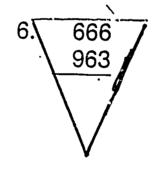


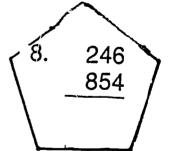












All Sums have a 1.



· Lesson Three 12



MATH FACTS

Math Form Ad-C (New '82

2+5= 3 + 76+0= 2+3= 5+9= 6+4= 1+0= 9+1= 7+0= 8+3= 8+5= 1+3= 2+0= 7+4= 8 + 4 = 5+3= 8+0= 8+6= 5+7= 0+2=6+6= 7+9= 5+4= 1+9= 4+1= 3+2= 6+9= 4+8= 9+7= 3 + 4 =0+6= 2+2= 9+9= 4+3= 9+6= 2+9= 9+5= 0 + 5 =1+5= 3+6= 8+8= 3+8= 4+6= 1+8= 7+8= 1+2= 2+8= 5+1= 4+2= 2+6= 8 + 7 =5+0= 9 + 2 = |= 7+7= 6+2= 8+9= 2 + 4 = 7+1= 5+8= 7+3= 6+5= 5+5= 2+1= 9+0= 6+3= 9+4= 7+6= 0 + 0 =4 + 7 =6+1= 5+2= 4+5= 3+3= 4+0= 3+5= 4+9= 2+7= 0+8= 7+5= 6+8= 8+2= 1+6= 3+9= 1+7= 9+3= 6+7= 3+0= 5+6= 8+1= 7+2= 9+8=

13

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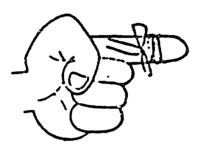
### LESSON FOUR

TO THE PARENT:

In this lesson your child will subtract whole numbers. Please have your child review the basic subtraction facts. Your child should be able to complete the enclosed basic facts sheet in 3 minutes.



## Remember



Subtract 5723 - 2457

I. Step 1

5 7 2 13

-2 4 5 7

Try These !!!

Hampton City Schools Mathematics Department

Lesson Four

#### SUBTRACTING II.

Subtract.

Use the code to find each difference.

III. Subtract.



how many of these you can answer and check your answers 8-3= correctly in  $\frac{3}{2}$  THEN complete minutes 6-4= remaining

9-9= 7-1= 9-5= 17-8= 8-1= 12-7= 11-7= 12-5=

15-9= 11-4=

7-5=

15-7=

12-6=

7-0= 10-3=

13-1= 16-7=

2-1= 10-2= 9-0= 12-8=

2-0= 15-8=

14-6= 10-7= 13-5=

3<sup>-</sup>-0= =0-8

14-9= |-|=

5-3= 3-3=

13-7= 9-2=

5-4= 7-3=

13-9= 10-1=

8-4= 16-8=

9-7= 14-7=

8-2= 5-2=

1-0= 3-2= 10-8=

11-5=

13-6=

9-3=

13-4=

17-9=

17

4-3=

18

### LESSON FIVE

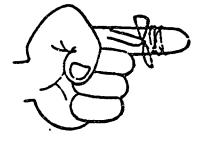
TO THE PARENT:

Have your child take the enclosed timed multiplication test. Your child should finish in three minutes. If not there should be drill on these X facts.

In this lesson your child will find products of up to 4 digit numbers X 2 digit numbers.

## Remember

I.



EXERCISE SET 1: Please multiply. Some have been worked for you.

Hampton City Schools Mathematics Department Lesson Five

••	•		
NI.	n	N.S	11.0

Multiply: 526 X 27

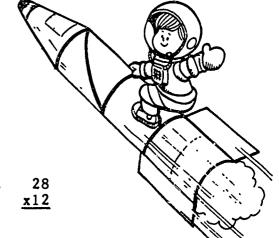
II.



Step 1	Step 2	Step 3
5 2 6	5 2 6 XI 2 17	5 2 6 X 2 7
3 6 8 2	3 6 8 2	3 6 8 2 1 0 5 2 0
		1 11 2 0 2

EXERCISE SET 2: Some have been worked for you. Please multiply.

## III. Work the multiplication problems below.



15. 
$$23$$
 $\times 10$ 

22. 86 
$$\times 12$$

Hampton City Schools Mathematics Department -3-

4x0=	8×2=	6×7=	1×3=	
7×0=	7×4=	8×5=	6x1=	See
0x1=	1×6=	5×4=	7 x l =	
0x3=	5×6=	8×0=	6×5=	how many time you
8x3=	6×9=	4×3=	0×5=	y of tu and
2×0=	5 x 7 =	3×5=	$7 \times 7 =$	<b></b>
5×0=	2×1=	9 x 2 =	7×6=	ck.
4×5=	0×6=	4×7=	3×2=	you can
6×0=	8×7=	2×4=	6×4=	
0x8=	' 9x6=	3x1=	4×2=	answer swers.
4×6=	9 x 9 =	7×9=	5x3=	, i
3×0=	5×8=	$0 \times 7 =$	6x3=	0
1×9=	4×8=	1 × 7 =	3x6=	tly in complet
4×9=	8×8=	8 x 4 =	3x8=	က်မှု
7×2=	0×0=	. 5×2=	1x5=	minute the re
4×1=	9×8=	2×8=	8 x I =	ma.
4×4=	7x3=	2×7=	6x8=	Have ining
0×2=	2×5=	x   =	8×9=	e some facts
9×4=	3x3=	3×9=	9 x 7 =	ts.
5×1=	1 × 4 =	2×3=	5×5=	100
1×8=	9x0=	1 × 2 =	8x6=	Noth 1
2×6=	6x6=	0×9=	9×3=	` 2
7x5=	2 x.9 =	6×2=	3×7=	•
9x1=	0×4=	1×0=	7×8=	(New
9x5=	2x2=	5×9.=	3×4=	°82)
2 - ERIC Paul text Provided by Effic	•	21	•	
But the same of the water of the state of	- x - x - x - x - x - x - x - x - x - x	* <u>*</u>	•	. ,

### LESSON SIX

TO THE PARENT:

Have your child take the timed division math facts test. Your child should get them correct in three minutes. If not, drill your child on these facts.



Remember

I.

In this lesson your child will divide with one and two digit divisors.



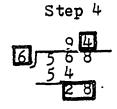
Divide: 568 ÷ 6

Step 1

Step 2

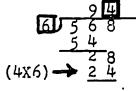
Step 3

6 **J** 5 6 8 -5 4 8



Step 5

Step 6



9 4 R4 5 5 6 8 5 4 2 8 -2 4

EXERCISE SET 1: Please divide. Some have been worked for you.

2. 6 5 5 4 1

3. 8 3 4 7

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Lesson Six

6. 9/1464

Divide: 6820 : 76

Step 1

Step 2

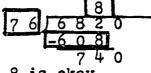


76/6820 How many 7's in 68? Try 9.

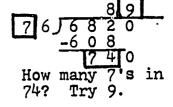
Too big! Try 8.

Step 3

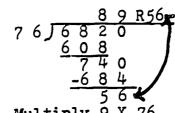
Step 4



8 is okay multiply 8X76 then subtract and bring down.



Step 5



Multiply 9 X 76. Subtract. Remainder is 56

Hampton City Schools Mathematics Department -2Lesson Six



II.

NAME

EXERCISE SET 2: Please divide. One has been worked for you.

1. 
$$35\sqrt{\frac{141}{140}}$$

$$\begin{array}{r} 40 \text{ R12} \\ -140 \\ \hline \\ 12 \\ -0 \\ \hline \\ 12 \end{array}$$

Hampton City Schools Mathematics Department Lesson Six -3-

0÷2=

Grade

72÷8=

63÷9=

49÷7=

9÷3=

18:9=

20÷4=

45÷5=

21÷7=

2÷2=

6÷2=

25÷5=

5÷1=

these you can answer

12÷4= 8÷2= 0÷8= 8÷4= 18÷3= 35÷7= 0:4= 64÷8= 7÷1= 36÷9= 48÷6= 30÷6= 3÷3= 48÷8= 12÷6= 54÷9= 2:1= 21÷3= 72÷9= 14:2= 16÷2= 32÷4= 35÷5= 8÷8= 16:4= 5÷5= 28÷4= 45÷9= 63÷7= 0÷9= 56÷7= 28÷7= 12:2= 0:6= 24÷3=

36÷4=

0÷3=

4÷4=

54÷6=

24:4=

10÷2=

4÷2=

0:1=

18:6=

42÷6=

32÷8=

20÷5=

12÷3=

00÷5=

24÷8=

6÷3=

6÷6=

·27÷3=

42÷7=

10÷5=

16÷8=

30÷5=

40÷8=

24÷6=

15:5=

36÷6=

40÷5=

18÷2=

9:9=

4÷ | =

56÷8=

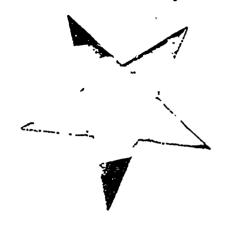
25

and check your answers. correctly in THEN comple ectly in  $\frac{3}{4}$  complete minutes.
the remai Have 18

Hath Form Di-C (New '82)

TOU

# Please Divide



1.

36)864

2.

19)703

3. 27)<del>972</del>

34)782

5.

32)1312

6.

65 \ 4680

7.

81)2997

Stall Power

8. 92)2484

9.

43)2709

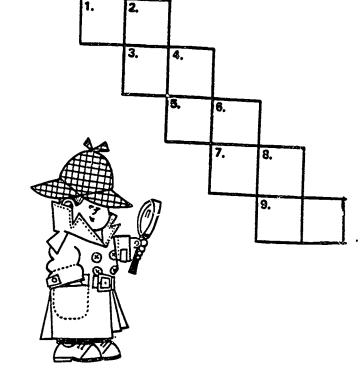
26

IV. Divide. Use the class to complete the cross number puzzle.

## **ACROSS**

DOWN

- 1. 154 ÷ 14
- 2. 1144 ÷ 88
- 3. 1184 ÷ 37
- 4. 1690 ÷ 65
- 5. 2752 ÷ 43
- 6. 315 ÷ 7
- 7. 1767 ÷ 31
- 8. 3744 ÷ 52
- 9. 588 ÷ 21



# Find the quotients and remainders!

27

### LESSON SEVEN

TO THE PARENT: In this lesson your child will find the greatest common <u>factor</u> (GCF) and the least common <u>multiple</u> (LCM). It is important that your child does not confuse

the two.

### **FACTORS**





 $2 \times 6 = 12$ 

## DIFFIGURE TO

 $1 \times 12 = 12$ 

## I. The <u>factors</u> of 12 are 1,2,3,4,6,12

The common factors of 12 and 15 are 1 and 3.

The greatest common factor (GCF) of 12 and 15 is 3.

### EXERCISE SET 1:

Fill in the table. Some have been worked for you.

	NUMBERS	FACTORS	COMMON FACTORS	GREATEST COMMON FACTOR
	8 12	1,2,4,8 1,2,3,4,6,12	1,2,4	4
1.	16 20	1,2,4,8,16 1,2,4,5,10,20	1,2,4	
2.	18 27	1,2,3,6,9,18 1,3,9,27	1,3,	***
· 3.	14 16	1,2,7,14 1,2,4,8,16		
4.	50 <b>7</b> 5	1,2,5,10,25,50 1,3,5,15,25,75		- Address - Addr
5	. 7	1,7 1,3,9		

24	A	3 (73)
IV.	ш	IVI PC

II.

EXERCISE SET 2: Find the greatest common factor for each pair of numbers. One has been worked for you.

9. 
$$16 \Rightarrow$$
  $40 \Rightarrow 1,2,4,5,8,10,20,40$ 

III. MULTIPLES













(0, 3, 6, 9, 12....) are multiples of 3

EXERCISE SET 3:

- 1. Multiples of 7: {0, 7, 14, □, △, ○, ···}
- 2. Multiples of 6: {0, 6, 12, □, △, ○, ···}
- ' 3. Multiples of 11: {0, 11, 22, □, △, ○, ···}
  - **4.** Multiples of 12: {0, 12, 24, □, △, ○, ···}
  - **5.** Multiples of 8: {□, △, ○, 24, 32, 40, ···}
  - **6.** Multiples of 9:  $\{\Box, \triangle, \bigcirc, 27, 36, 45, \cdots\}$

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Lesson Seven

29

IV.

### EXERCISE SET 4:

List the non zero multiples of each number. Then find the least common multiple for each pair. Two have been worked for you.

1. To find the multiples of 4 multiply 4 by 1, 2, 3, 4, etc. Do the same for 14. Then find the first common multiple.

 $4 \rightarrow 4$ , 8, 12, 16, 20, 24 28, 32, 36,....

- 2. 12 20
- 3. 9 15
- 4. 6 21
- و. 8 12
- 6. 10 10, 20, 30, 40, 50, 60, 70, 80, 60, 9 9, 18, 27, 36, 45, 54, 63, 72, 81, 60
- 7· 4
- 8. 6 96
- 9. 10 25
- 10. 7



11. Buns come in packages of 8. Hot dogs in packages of 10. What is the least number packages of hot dogs and of buns you should buy so you'll have the same number of buns as hot dogs?

Hampton City Schools Mathematics Department

Lesson Seven

can answer remaining

7+3= 1+8=

54÷9=

8+3=

8x7 =

6+7=

6-6=

3x8= 72÷9=

14-9=

4:4=

5+9=

12-3=

 $7 \times 9 =$ 

42÷6=

7×2=

15-9=

9+9=

7÷1=

6-0=

9x3=

8+1=

5x6=

36÷4=

5+7=

7+7=

6×9=

13-6=

6+5=

7×6=

 $3 \times 4 =$ 

9+8=

11-7=

5×9=

49:7=

9x8=

2 + 5 =

8-7=

6x4=

4 + 7 =

0+8=

5-5=

16÷2=

3×6=

81÷9=

56:8=

9-1=

8+7=

24:4=

0÷5=

17-8=

8x6=

5x7 =

63÷9=

8+0=

15-7=

 $7 \times 3 =$ 

6 ÷ 1 =

2+8=

14-7=

9-9=

0÷3=

 $4 \times 7 =$ 

5+4=

15÷5=

0:6=

8x5=

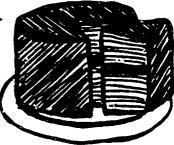
· 9+6=

13-9=

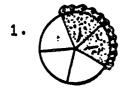
Math Form ASMD Comb-B (New '82)

### LESSON EIGHT

TO THE PARENT: In this lesson your child will write equivalent fractions.



Fractions:



Fractional part eaten

I.

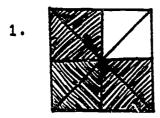


Fractional part of the cup filled



Fractional part of the narbles that are dark  $\frac{6}{8}$ 

EXERCISE SET 1: Name the fraction for the part that is snaded.



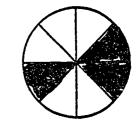
2.



3.



5.



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6. How much of the carton is left? 7. What part has been eaten? (the light part)





8. What part has been eaten? (the dark part)



9. What part of the eggs are brown?

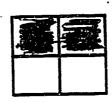


Equivalent fractions name the same number.

II.



 $\frac{1}{2}$ 



2 4



3

EXERCISE SET 2: Study the diagrams and write the equivalent fractions for the shaded parts.

1.



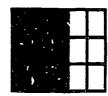


Write equivalent fractions for the shaded parts.

2.







Write two names for the shaded parts. The first one has been done for you.

3.







$$\frac{6}{9} = \frac{2}{3}$$

4.



5.







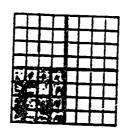




6.



7.



8.



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Lesson Eight

Finding equivalent fractions:

Examples:

$$\frac{2}{3} = \frac{2 \times 3}{3 \times 3} = \frac{6}{9}$$

$$\frac{2}{3} = \frac{2 \times 4}{3 \times 4} = \frac{8}{12}$$

$$\frac{1}{2} = \frac{1 \times 5}{2 \times 5} = \frac{5}{10}$$

III.

$$\frac{3}{8} = \frac{3 \times 6}{8 \times 6} = \frac{18}{48}$$

Give the missing fractions in each exercise.

$$\frac{1}{3}$$
 x  $\frac{2}{2}$ 

$$\frac{1}{3} \times \frac{2}{2} \qquad \frac{1}{3} \times \frac{3}{3}$$

$$\frac{1}{3} \times \frac{4}{4}$$
  $\frac{1}{3} \times \frac{5}{5}$ 

$$\frac{1}{3} \times \frac{5}{5}$$

$$\frac{1}{3}$$

$$\frac{2}{5}$$
 x  $\frac{2}{2}$ 

2. 
$$\frac{2}{5} \times \frac{1}{1}$$
  $\frac{2}{5} \times \frac{2}{2}$   $\frac{2}{5} \times \frac{3}{3}$   $\frac{2}{5} \times \frac{4}{4}$   $\frac{2}{5} \times \frac{5}{5}$ 

$$\frac{2}{5} \times \frac{4}{4}$$

$$\frac{2}{5} \times \frac{5}{5}$$

$$\frac{3}{10} \times \frac{10}{10}$$

$$\frac{3}{10}$$
  $x_{\frac{25}{25}}$ 

3. 
$$\frac{3}{10}$$
  $\times \frac{4}{4}$   $\frac{3}{10}$   $\times \frac{10}{10}$ .  $\frac{3}{10}$   $\times \frac{20}{20}$   $\frac{3}{10}$   $\times \frac{25}{25}$   $\frac{3}{10}$   $\times \frac{100}{100}$ 

$$\frac{3}{4} \times \frac{25}{25}$$

$$\frac{3}{4} \times \frac{8}{8}$$
  $\frac{3}{4} \times \frac{25}{25}$   $\frac{3}{4} \times \frac{100}{100}$   $\frac{3}{4} \times \frac{1000}{1000}$ 

15 20

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Lesson Eight

Find what you must multiply the numerator and denominator by to get the given denominator. Find the numerator.

5. 
$$\frac{4}{5} = \frac{4 \times 3}{5 \times 3} = \frac{15}{15}$$

6. 
$$\frac{2}{3} = \frac{2 \times 1}{3 \times 1} = \frac{21}{21}$$

7. 
$$\frac{3}{8} = \frac{3}{8} \times \frac{1}{X} = \frac{3}{32}$$

8. 
$$\frac{7}{10} = \frac{7}{10} \times \frac{1}{100} = \frac{1}{100}$$

9. 
$$\frac{1}{3} = \frac{1}{3} \times \frac{1}{X} = \frac{1}{30}$$

10. 
$$\frac{4}{4} = \frac{4 \times 1}{4 \times 1} = \frac{32}{32}$$

Find the numerator.

11. 
$$\frac{1}{2} = \frac{1}{12}$$

12. 
$$\frac{3}{4} = \frac{1}{16}$$

13. 
$$\frac{4}{5} = \frac{}{25}$$

$$\frac{14.}{8} = \frac{5}{16}$$

15. 
$$\frac{1}{3} = \frac{.}{6}$$

$$\frac{3}{5} = \frac{3}{10}$$



## Finding a common denominator

EXAMPLE 1: Write equivalent fractions for  $\frac{1}{2}$  and  $\frac{3}{8}$  with a common denominator.

Names for 
$$\frac{1}{2} \longrightarrow \frac{1}{2}$$
,  $\frac{2}{4}$ ,  $\frac{3}{6}$ ,  $\frac{4}{8}$ ,  $\frac{5}{10}$ , ......

Names for 
$$\frac{3}{8}$$
  $\frac{3}{8}$   $\frac{6}{16}$ .....

 $\frac{4}{8}$  and  $\frac{3}{8}$  have the same denominators.

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Lesson Eight

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иn	ישיב	

EXAMPLE 2: Write equivalent fractions for  $\frac{5}{6}$  and  $\frac{1}{4}$  with a common denominator.

Names for  $\frac{5}{6} \rightarrow \frac{5}{6}$ ,  $\frac{10}{12}$ ,  $\frac{15}{18}$ ,  $\frac{20}{24}$ , .....

Names for  $\frac{1}{4} \rightarrow \frac{1}{4}$ ,  $\frac{2}{8}$ ,  $\frac{3}{12}$ 

 $\frac{10}{12}$  and  $\frac{3}{12}$  have the same denominator.

IV.

EXERCISE SET 4: Write equivalent fractions with a common denominator for each pair of fractions.

1. 
$$\frac{1}{2} = \frac{2}{4} = \begin{bmatrix} \frac{3}{6} \\ \frac{1}{8} \end{bmatrix} = \frac{\frac{3}{6}}{6}$$

$$\frac{2}{3}$$
:  $\frac{4}{6}$ :  $\frac{6}{9}$ :  $\frac{4}{6}$ 

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Lesson Eight

### LESSON NINE

TO THE PARENT: In this lesson your child will reduce fractions and multiply fractions.



Reducing Fractions to Lowest Terms

$$\frac{9}{12} = \frac{9 \div 3}{12 \div 3} = \frac{3}{4}$$

$$\frac{?}{12} = \frac{?}{4}$$

1.

EXERCISE SET 1:
Give the fractions in lowest terms.

1. 
$$\frac{4}{10} = \frac{4 \div 10}{10 \div 1} = -$$

2. 
$$\frac{8}{32} = \frac{8 \div }{32 \div } = -$$

3. 
$$\frac{12}{20} = \frac{12 \div}{20 \div} = -$$

4. 
$$\frac{10}{12} = \frac{10 \div 1}{12 \div 1} = -$$

5. 
$$\frac{16}{42} = \frac{16 \div}{42 \div} = -$$

$$6 \cdot \quad \frac{6}{21} = \frac{6}{21} \div \qquad \qquad 3$$

7. 
$$\frac{15}{40} =$$

8. 
$$\frac{90}{100}$$
 =

9. 
$$\frac{12}{20}$$
 =

$$\frac{10.}{24} =$$

Multiplying Fractions

This drawing shows that

$$\frac{2}{3} \text{ of } \frac{4}{5} \text{ is } \frac{8}{15}.$$

EXAMPLE 1:

$$\frac{3}{5} \times \frac{1}{2} = \frac{3}{10}$$
 Multiply numerators
Multiply denominators

EXAMPLE 2: 
$$\frac{3}{4} \times \frac{2}{3} = \frac{6}{12} = \frac{6 \div 6}{12 \div 6} = \frac{1}{2}$$

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Lesson Nine

II.

Multiplying Fractions

$$\frac{3}{8} \times \frac{1}{8} = \frac{3}{1} \times \frac{1}{8} = \frac{3}{8}$$

EXERCISE SET 2: Multiply and Reduce

1. 
$$\frac{1}{4} \times \frac{1}{2}$$

$$\frac{1}{2} \times \frac{4}{5}$$

$$3. \frac{2}{3} \times \frac{3}{8}$$

4. 
$$\frac{4}{5} \times \frac{1}{4}$$

5. 
$$\frac{1}{10} \times \frac{1}{3}$$

6. 
$$\frac{5}{11} \times \frac{2}{3}$$

7. 
$$\frac{3}{4} \times \frac{4}{7}$$

8. 
$$4 \times \frac{1}{2}$$

9. 
$$\frac{1}{10} \times \frac{3}{100}$$

10. 
$$\frac{7}{10}$$
 x  $\frac{2}{5}$ 

11. 
$$\frac{2}{3} \times \frac{2}{3}$$
.

12. 
$$\frac{1}{4} \times \frac{3}{2}$$

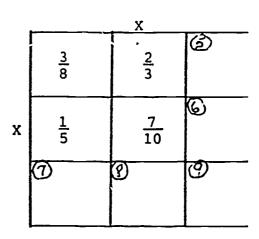
13. 
$$\frac{7}{3} \times \frac{1}{2}$$

14. 
$$\frac{3}{5} \times \frac{5}{3}$$

15. 
$$\frac{1}{8}$$
 x 2

III. Multiply Down, Multiply Across

		Χ	
	<u>1</u> 2	<u>2</u> 3	02-13 20
x	<u>3</u>	<u>3</u> 5	<b>Ø</b>
	<u>.</u>	Ф	



IV. Reduce each fraction to lowest terms.

Can you find three answers which are the same?

$$1. \frac{4}{10} =$$

2. 
$$\frac{12}{16}$$
 =

3. 
$$\frac{8}{40}$$
 =

4. 
$$\frac{6}{36} =$$

$$\cdot$$
 5.  $\frac{24}{36} =$ 

6. 
$$\frac{27}{36}$$
 =

7. 
$$\frac{15}{65}$$
 =

8. 
$$\frac{25}{35}$$
 =

9. 
$$\frac{21}{28}$$
 =

10. 
$$\frac{20}{22} =$$

11. 
$$\frac{4}{24} =$$

$$\frac{15}{24} =$$





Please multiply.

1. 
$$\frac{1}{5} \times \frac{3}{8} =$$

3. 
$$\frac{4}{5} \times \frac{3}{9} =$$

5. 
$$\frac{2}{5} \times \frac{4}{9} =$$

7. 
$$\frac{2}{3} \times \frac{5}{7} =$$

9. 
$$\frac{8}{9} \times \frac{11}{13} =$$

11. 
$$\frac{1}{3} \times \frac{1}{4} =$$

2. 
$$\frac{1}{4} \times \frac{3}{4} =$$

4. 
$$\frac{3}{4} \times \frac{1}{7} =$$

6. 
$$\frac{7}{10} \times \frac{11}{12} =$$

8. 
$$\frac{4}{5} \times \frac{2}{3} =$$

10. 
$$\frac{2}{9} \times \frac{8}{11} =$$

12. 
$$\frac{1}{5} \times \frac{3}{5} =$$

#### LESSON TEN



In this lesson your child will add both like and TO THE PARENT: unlike fractions.

Adding Like Fractions

EXAMPLE 1:

$$\frac{4}{6} + \frac{1}{6} = \frac{\frac{1}{6} + \frac{1}{6}}{\frac{1}{6} + \frac{1}{6} + \frac{1}{6}} = \frac{\frac{1}{6} + \frac{1}{6} + \frac{1}{6}}{\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}} = \frac{\frac{1}{6} + \frac{1}{6} + \frac{1}{6}}{\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}} = \frac{\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}}{\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}} = \frac{\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}}{\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}} = \frac{\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}}{\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}} = \frac{\frac{1}{6} + \frac{1}{6} + \frac{1}{6}}{\frac{1}{6} + \frac{1}{6} + \frac{1}{6}} = \frac{\frac{1}{6} + \frac{1}{6} + \frac{1}{6}}{\frac{1}{6} + \frac{1}{6} + \frac{1}{6}} = \frac{\frac{1}{6} + \frac{1}{6} + \frac{1}{6}}{\frac{1}{6} + \frac{1}{6} + \frac{1}{6}} = \frac{\frac{1}{6} + \frac{1}{6} + \frac{1}{6}}{\frac{1}{6} + \frac{1}{6} + \frac{1}{6}} = \frac{\frac{1}{6} + \frac{1}{6} + \frac{1}{6}}{\frac{1}{6} + \frac{1}{6} + \frac{1}{6}} = \frac{\frac{1}{6} + \frac{1}{6} + \frac{1}{6}}{\frac{1}{6} + \frac{1}{6} + \frac{1}{6}} = \frac{\frac{1}{6} + \frac{1}{6} + \frac{1}{6}}{\frac{1}{6} + \frac{1}{6}} = \frac{\frac{1}{6} + \frac{1}{6}}{\frac{1}{6}} = \frac{\frac{1}{6} + \frac{1}{6}}{\frac$$

EXAMPLE 2:

add the numerators keep the denominators

$$\frac{8}{16} \div \frac{8}{8} = \frac{1}{2}$$

I.

EXERCISE SET 1: Add. Reduce to lowest terms.

$$1 \cdot \frac{3}{5} + \frac{1}{5} =$$

$$2 \cdot \frac{3}{8} + \frac{4}{8} =$$

$$3 \cdot \frac{1}{6} + \frac{2}{6} =$$

$$\frac{4}{5} + \frac{2}{5} =$$

$$5 \cdot \frac{2}{3} + \frac{2}{3} =$$

6. 
$$\frac{5}{12}$$
+  $\frac{4}{12}$  =

Adding Unlike Fractions

**EXAMPLE**  $\frac{2}{3} + \frac{1}{12}$ 

Names for  $\frac{2}{3} \rightarrow \left\{ \frac{2}{3}, \frac{4}{6}, \frac{6}{9}, \frac{8}{12} \right\}$ .....

$$\frac{1}{12}$$

$$\frac{3}{3} = \frac{12}{12} + \frac{1}{12} = \frac{1}{12} = \frac{9}{12} \text{ or } \frac{3}{4}$$

# Adding Unlike Fractions

EXAMPLE 2:

$$\frac{1}{6} \longrightarrow \left\{ \frac{1}{6}, \frac{2}{12}, \frac{3}{18}, \frac{\frac{1}{4}}{24} \right\} \dots$$

II.

EXERCISE SET 2 Add and simplify.

9. 
$$\frac{3}{5} + \frac{3}{10}$$

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NAME\_\_\_\_\_

## III. EXERCISE SET 3:

Add the fractions below. Put your answers on the answer sheet. Don't forget! Reduce your answers to lowest terms.

1. 
$$\frac{1}{4} + \frac{5}{8} = \frac{6}{24} + \frac{15}{24} = \frac{21}{24} = \frac{7}{8}$$

2. 
$$\frac{1}{2} + \frac{3}{4} =$$

3. 
$$\frac{3}{8} + \frac{13}{16} =$$

4. 
$$\frac{1}{4} + \frac{3}{8} =$$

5. 
$$\frac{7}{8} + \frac{3}{4} =$$

6. 
$$\frac{13}{16} + \frac{1}{2} =$$

7. 
$$\frac{1}{4} + \frac{9}{16} =$$

8. 
$$\frac{5}{8}$$
 +  $\frac{3}{16}$  =

9. 
$$\frac{3}{4} + \frac{7}{16} =$$

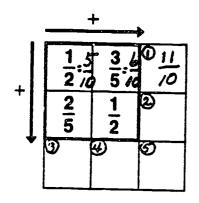
10. 
$$\frac{5}{16}$$
 +  $\frac{3}{8}$  =

44

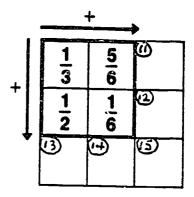


IV.

Add across. Add down.



		<u>+</u>	<b>&gt;</b>
	7 10	$\frac{1}{2}$	6
+	<u>3</u> 5	10	<b>7</b>
4	Ø	9	<b>@</b>



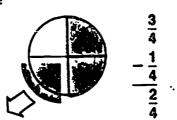
### LESSON ELEVEN

TO THE PARENT: In this lesson your child will subtract fractions with like and unlike denominators.

Subtracting Fractions with Like Denominators

EXAMPLE 1:

$$\frac{3}{4} - \frac{1}{4} =$$





**EXAMPLE** 2:  $\frac{5}{6} - \frac{1}{6} =$ 

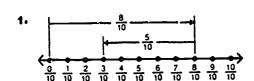
 $-\frac{5}{6}$ 

denominators are the same

subtract the numerators keep the common denominators

$$\frac{4}{6} = \frac{2}{3}$$

EXERCISE SET 1: Subtract and simplify.



2. 
$$\frac{7}{8} - \frac{1}{8} =$$

$$\frac{9}{10} - \frac{5}{10} = \frac{10}{10}$$

3. 
$$\frac{11}{16} - \frac{7}{16} =$$

4. 
$$\frac{6}{7} - \frac{2}{7} =$$

5. 
$$\frac{7}{10}$$
 -  $\frac{3}{10}$ 

6. 
$$\frac{11}{12}$$
 -  $\frac{6}{12}$ 

I.

NAME	

7. John had 7 yard of wool. He used 5 yard to make a vest.

How much did he have left?

8. Nancy had  $\frac{5}{6}$  of a pie. She ate  $\frac{1}{6}$ . How much was left?

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II. Suttract, please.

1. 
$$\frac{5}{7}$$
 -  $\frac{2}{7}$ 

2. 
$$\frac{14}{17}$$
  $-\frac{3}{17}$ 

3. 
$$\frac{19}{25}$$
-  $\frac{13}{25}$ 

4. 
$$\frac{14}{37}$$

$$-\frac{1}{37}$$

5. 
$$\frac{39}{100}$$

$$- \frac{26}{100}$$

6. 
$$\frac{4}{5}$$

7. 
$$\frac{7}{8}$$

9. 
$$\frac{3}{4}$$

10. 
$$\frac{5}{6}$$
 -  $\frac{4}{6}$ 

11. 
$$\frac{9}{10}$$
  $-\frac{2}{10}$ 

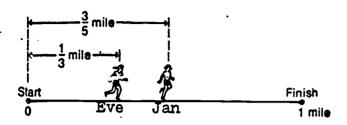
12. 
$$\frac{17}{21}$$
 -  $\frac{4}{21}$ 



Find the one numerator which is an even number.

# III. Subtracting Fractions with Unlike Denominators

### EXAMPLE 1:



Jan is how much ahead of Eve?

$$\frac{3}{5} - \frac{1}{3}$$

$$\frac{3}{5} = \frac{9}{15}$$

$$\frac{1}{3} \longrightarrow \left\{ \frac{1}{3}, \frac{2}{6}, \frac{3}{9}, \frac{4}{12} \right\} - \frac{1}{3} = \frac{5}{15}$$

So Eve is  $\frac{4}{15}$  mi. ahead of Jan.

EXERCISE SET 2: Subtract. Simplify if possible.

1. 
$$\frac{11}{12} = \frac{11}{12}$$
 $\frac{3}{4} = \frac{9}{12}$ 
 $\frac{2}{12}$  or  $\frac{1}{6}$ 

2. 
$$\frac{3}{4}$$
 -  $\frac{?}{16}$ 

3. 
$$\frac{7}{10}$$
 .  $\frac{2}{5}$ 

5. 
$$\frac{5}{6} - \frac{1}{2} =$$

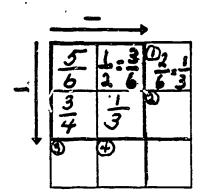
6. 
$$\frac{5}{9} - \frac{1}{3} =$$

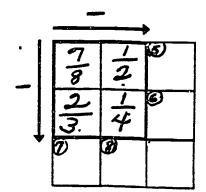
7. 
$$\frac{3}{5} - \frac{1}{6} =$$

8. 
$$\frac{1}{2} - \frac{1}{3} =$$

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IV. Subtract across. Subtract down.





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Subtract the fractions below.

Put your answers on the answer sheet.

$$1. \frac{5}{16} - \frac{3}{16} =$$

$$5. \frac{1}{2} - \frac{3}{16} =$$

7. 
$$\frac{1}{4} - \frac{1}{8} =$$

9. 
$$\frac{5}{9} - \frac{1}{2} =$$

11. 
$$\frac{11}{16} - \frac{3}{8} =$$

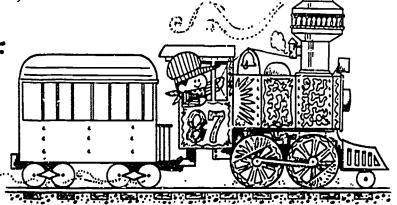
$$12. 1 - \frac{3}{8} =$$

$$2. \frac{3}{8} - \frac{1}{4} = \frac{3}{8} - \frac{2}{8} = \frac{1}{8}$$

6. 
$$\frac{7}{8} - \frac{1}{2} =$$

$$8. \frac{3}{4} - \frac{11}{16} =$$

10. 
$$\frac{15}{16} - \frac{1}{4} =$$

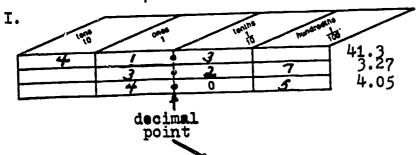


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Lesson Eleven

## LESSON TWELVE

In this lesson your child will read and write decimal TO THE PARENT: fractions.





41.3 forty-one and three tenths
3.27 three and twenty-seven hundredths
4.05 four and five hundredths



$$2\frac{3}{10} = 2.3$$

MMI		
<u> </u>	1	 

EXERCISE SET 1: Please write each decimal as a word statement.

1. 3	.4		
------	----	--	--

2. 14.18 fourteen and eighteen hundredths

20.02

2.65

4.50 \_ . 5.

Hampton City Schools Mathematics Department Lesson Twelve

NAME					
6.	4.7	•			
7.	5.06				
8.	37.61				
9.	7.9				
LO.	0.36				

Hampton City Schools Mathematics Department

Lesson Twelve



II. Writing Decimals: Tenths and Hundredt	II. Writing	DECIMELS:	Tentra	ena	minareath
---	-------------	-----------	--------	-----	-----------

Name:	;				
Mame:		_			

Write the missing numbers.

- 1. .42 = 42 hundredths
- 2. .18 = \_\_\_\_ hundredths
- 3. .7 = \_\_\_\_\_ tenths!
- 4. .10 = \_\_\_ hundredths
- 5. .01 = hundredth
- 6. .11 = \_\_\_\_ hundredths
- 7. .86 = \_\_\_\_ hundredths
- 8. .03 = hundredths
- 9. .33 \_ hundredths
- 10. .5 = \_\_\_\_\_ tenths
- 11. .67 = \_\_\_\_ hundredths
- 12. .84 = \_\_\_\_ hundredths
- 13. .75 = \_\_\_\_ hundredths
- 14. .61 = \_\_\_\_ hundredths
- 15. .8 = \_\_\_\_\_ tenths
- 16. .80 = \_\_\_\_ hundredths
- 17. .08 = \_\_\_\_ hundredths
- 18. .40 = \_\_\_\_ hundredths
- 19. .04 = \_\_\_\_ hundredths
- 20., .4 \_\_\_\_\_ tenths

For each exercise, write a decimal.

- 21. 4 hundredths
- 22. 81 hundredths
- 23. 10 hundredths
- 24. 6 and 31 hundredths
- 25. 5 and 8 tenths
- 26. 5 and 80 hundredths
- 27. 36 and 7 hundredths
- 28. 75 and 12 hundredths
- 29. 60 and 3 hundred.hs
- 30. 541 and 18 hundredths
- 31. one tenth
- 32. ten hundredths
- 33. nine and one hundredth
- 34. nine and one tenth
- 35. forty six and seven hundredths
- 36. fifty and fifty hundredths
- 37. twenty six and one hundredth
- 38. ten and thirty nine hundredths\_\_\_\_\_
- 39. one and forty eight hundredths\_\_\_\_
- 40. twenty nine and three tenths \_\_\_\_\_

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#### LESSON THIRTEEN

TO THE PARENT:

In this lesson your child will add and subtract decimal fractions. Emphasize that your child must line up the decimal points before adding or subtracting.



## I. Addition of Decimals

#### **EXAMPLES:**

1. Add 4.68, 15, and 22.3

Step 1 Rewrite in vertical form with the decimal points written directly under each other.

4.68 NOTE: A whole number 15.00 ← has the decimal point 22.30 after the last digit.

Step 2 Add as with whole numbers.

4.68 15.00 22.30 41.98

2. Henry bought a fielder's glove for \$15.49, a bat for \$4.79, and a baseball for \$2.19. How much did he spend altogether?

\$15.49 4.79 line up the decimal points 2.19 \$22.47

# EXERCISE SET: Add.

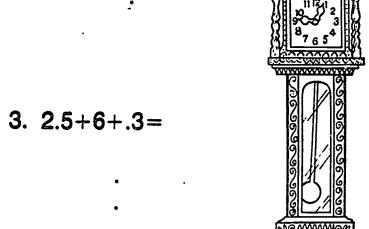
- 5. 4.54 + 45.4
- 6. Joni bought a jersey for \$11.29, and cap for \$8.99. How much did she spend?

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Lesson Thirteen II. Find the sums. Line up the numbers by using the decimal points provided.
All the answers are palindromes, Palindromes read the same forwards & backwards.

$$2.7.2 + .027 =$$





# III. Subtraction of Decimals

## EXAMPLES &

1. Find 9.36 - 3.1

2. Find 8.7 - 2.33

Tom bought a catcher's mask for \$18.98. He gave the clerk a \$20 bill. What was 3. his change?



EXERCISE SET: Subtract.

yame	 	

- 7. The barometric pressure before the tornado was 29.34 in. and during the tornado was 27.44 in. By how much did the pressure change?
- 8. Helen bought a notebook for \$5.39. She gave the clerk \$10. How much change should she receive?

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Lesson Thirteen





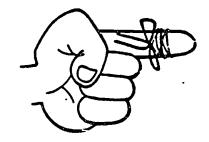
II. Subtract.
Bozo says all answers have a seven.

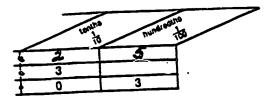
6. 
$$61.7 - 54.3 =$$

## LESSON FOURTEEN

In this lesson your child will express common fractions as decimal fractions TO THE PARENT: and decimal fractions to dommon fractions.

Changing Decimal Fractions to Common Fractions





$$0.25 = \frac{25}{100} = \frac{25 - 25}{100 - 25} = \frac{1}{4}$$

$$0.3 = \frac{3}{10}$$

$$0.03 = \frac{3}{100}$$

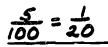
I. Write as fractional parts of a dollar. Reduce to lowest terms.











EXERCISE SET: II. Write as common fractions. Reduce to lowest terms.

1. 
$$0.04 = \frac{4}{100} = \frac{1}{25}$$
 2.  $0.29 = \frac{29}{100}$ 

0.08

5. 0.7

60

NAME

13. 
$$3.05 = 3\frac{5}{100} = 3\frac{1}{20}$$

III. Changing Common Fractions to Decimal Fractions **EXAMPLES:** 

$$\frac{1}{5} = \frac{1}{5} \times \frac{2}{2} = \frac{2}{10} = .2$$
 change denominator to 10

$$\frac{3}{4} = \frac{3 \times 25}{4 \times 25} = \frac{75}{100} = .75$$
 change denominator to 100

$$\frac{3}{20} = \frac{3 \times 5}{20 \times 5} = \frac{15}{100} = .15$$
 Change denominator to 100

EXERCISE SET:

Fill in the boxes.

1. 
$$\frac{17}{50} = \frac{17 \times 1}{50 \times 1} = \frac{34}{100} = .34 \times 2.$$
  $\frac{13}{25} = \frac{13 \times 1}{25 \times 1} = \frac{100}{100} = \frac{1}{100} = \frac{1}{10$ 

3. 
$$\frac{1}{2} = \frac{1}{2} \times \frac{X}{X} = \frac{10}{10} = \frac{1}{10}$$

$$4. \quad \frac{1}{5} = \frac{1}{5} \times \frac{X}{X} = \frac{1}{10} =$$

Hampton City Schools Mathematics Department

Lesson Fourteen

NAME\_\_\_\_

5. 
$$\frac{19}{20} = \frac{19}{20} \frac{X}{X} = \frac{100}{100} = \frac{100}{100}$$

6. 
$$\frac{1}{4} = \frac{1}{4} \times \frac{X}{X} = \frac{1}{100} = \frac{1}{100}$$

Write each fraction as a decimal.

$$7 \cdot \frac{11}{25} = \frac{44}{100} = .44$$

$$8. \quad \frac{9}{20} = \frac{100}{100} =$$

$$9 \cdot \frac{9}{10} =$$

$$10 \cdot \frac{4}{5} = \frac{10}{10} =$$

11. 
$$4\frac{1}{2} = 4_{\overline{10}} =$$

12. 
$$\frac{7}{100} =$$

13. 
$$\frac{13}{100} =$$

14. 
$$2\frac{3}{10} =$$

15. 
$$\frac{3}{25} = \frac{100}{100} =$$

16. 
$$3\frac{3}{4} = 3_{\overline{100}} =$$

17. 
$$\frac{2}{5} =$$

18. 
$$1\frac{1}{2}$$
 =

19. 
$$\frac{9}{100} =$$

20. 
$$\frac{3}{10} =$$

$$21. \quad 2\frac{7}{10} =$$

22. 
$$5\frac{7}{100} =$$

23. Two appendages of the crab are pinchers. Give a fraction and decimal to show

pinchers total appendages



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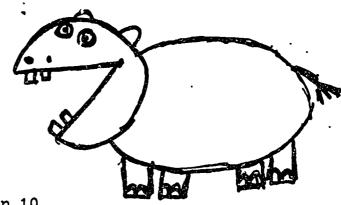
Lesson Fourteen

## LESSON FIFTEEN



TO THE PARENT:
In this lesson your chi a will compare the values of decimal fractions using , , or =.

REMEMBER!!!!!
Harry, the Hippo and
PAC MAN take the
biggest bite.



I. 7 < 10

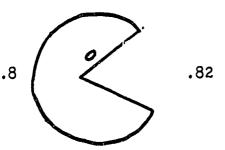
7 is less than 10

.32 > .3

 $\frac{32}{100}$  is greater than  $\frac{3}{10}$  or  $\frac{30}{100}$ 

.3 = .30

 $\frac{3}{10}$  is equal to  $\frac{30}{100}$ 



#### **EXAMPLES:**

Compare the decimals using  $\angle$  ,  $\supset$  , or =.

.8 0 .80

compare tenths, both 8

compare hundredths, both 0

.8 = .80

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Lesson Fifteen

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## I. Continued.

NAME\_\_\_\_

.080 .8 compare tenths 0 < 8

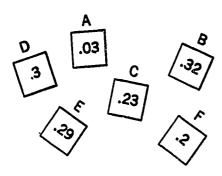
.08 .8

.280 .21 compare tenths, both 2 compare hundredths, 8 7 1

.28 > .21

## Exercise Set 1:

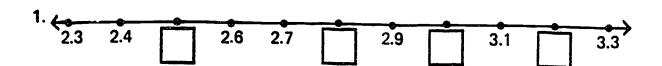
Arrange these in order from SMALLEST to LARGEST.

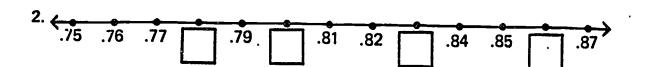


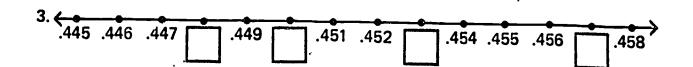
Hampton City Schools Mathematics Department Lesson Fifteen -2-

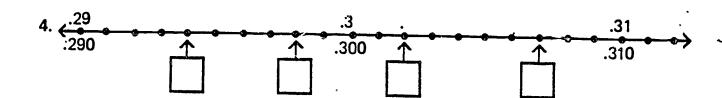
## II. EXERCISE SET 2:

Insert the Missing Decimals:









Continue the Pattern:

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Lesson Fifteen

# EXERCISE SET 3:

## EXERCISE 4:

## III. Equal Decimals

Circle the number that is not equal to the other numbers. Write number on answer sheet.

- 1. .700 .7 .070
- 10. 8.25 8.250 8.205
- 2. .3 .30 .003
- 11. .72 .702 .720
- 3. .90 .009 .900
- 12. 9.30 9.300 9.030
- 4. .600 .060 .60
- 13. 4.70 4.007 4.700
- 5. .002 .020 .02
- 14. 6.400 6.040 6.04
- 6. .070 .7
- 15. 4.07 4.070 4.007
- 7. .40 .040 .4
- 16. 32.015 32.150 32.15
- 8. .05 .50 .500
- 17. 48.29 48.290 48.029
- 9. .08 .080 .008
- 18. 29.130 29.103 29.13

- IV. Comparing Decimals
  Compare the decimals.
  Use >, < or =.</pre>
  - 1. .9 .90
  - 2. .68 > .4
  - 3. .27 .5
  - 4. .3 .38
  - 5. .8 .08
  - 6. .30 .3
  - 7. .18 .180
  - 8. .618 .573
  - 9. .07 .300
  - 10. .400 .004
  - 11. .35 .352
  - 12. .098 .9
  - 13. .02 .012
  - 14. .070 .59
  - 15. .5 .07

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Lesson Fifteen

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### LESSON SIXTEEN

TO THE PARENT: In this lesson your child will measure using a centimeter and inch ruler. You will find a ruler in this packet.

The measurements given are both in the Metric System and the Customary System.

I.	Name	these	measuring
	tools	•	

В.	
<b>D</b> .	

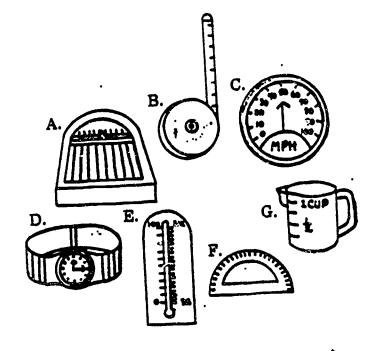
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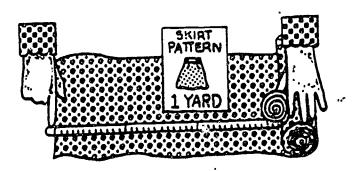


Measurement Devices Can you name them?

## Customary System

12 inches = 1 foot

3 feet = 1 yard



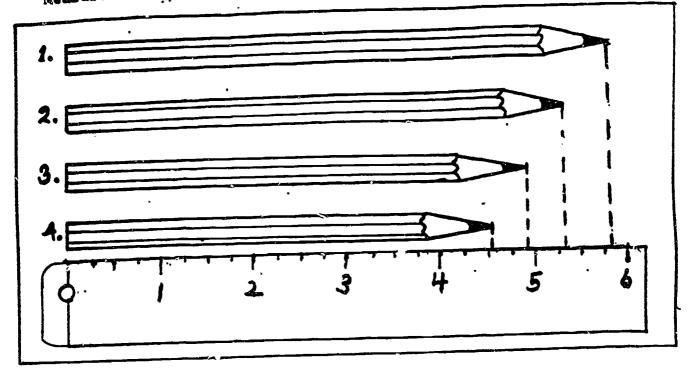
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Lesson Sixteen



II. Using a Ruler

Place the zero mark at the end of the object to be measured.
Measure these pencils to the nearest 1 inch.



1. 5 <del>1</del> in 2. \_\_\_\_\_ 3. \_\_\_\_ 4. \_\_\_\_

Use your ruler to measure these to the nearest  $\frac{1}{4}$  inch

5. 6. 7. 7. 7. 7. 7. The state of the state

Hampton City Schools Mathematics Department Lesson Sixteen -2-

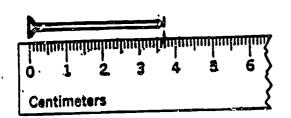
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III. Use a tape measure to measure the following to the nearest  $\frac{1}{4}$  inch.

- 1. Your height\_\_\_\_\_
- 2. Around your wrist\_\_\_\_
- 3. Around your nack\_\_\_\_
- 4. Around your ankle\_\_\_\_
- 5. Length of your foot\_\_\_\_
- 6. Length of a book\_\_\_\_\_
- 7. A comb\_\_\_\_\_
- 8. Length of your thumb

## IV. METRIC SYSTEM

The centimeter (cm) ruler is divided into 10 equal parts called millimeters (nm).



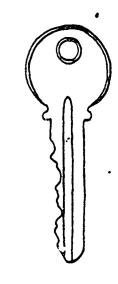


37 mm \_\_\_

How many mm? 32 mm

Measure the following to the nearest cm.



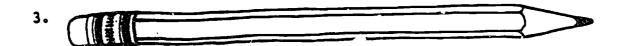


\_\_\_\_cm

Lesson Sixteen



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NAME_	



\_\_\_\_cm

4.

5. The width of this paper.

\_\_\_\_\_\_cm

\_\_\_\_cm

- 6. Your height \_\_\_\_\_cm
- \_\_\_\_\_cm 7. Length of your foot\_\_\_\_\_cm
- 8. Length of your thumb \_\_\_\_\_cm

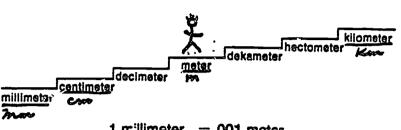
## LESSON SEVENTEEN

TO THE PARENT: In this lesson your child will make conversions within the metric system.

Can you think of a word which begins with "cent" and means  $\frac{1}{100}$ ?

Can you think of a word that begins with "mill" and means  $\frac{1}{1000}$ ?

Think of the metric units of length as a staircase.



1 millimeter = .001 meter

1 centimeter = .01 meter

1 decimeter = .1 meter

1 dekameter = 10 meters

1 hectometer = 100 meters

1 kilometer = 1,000 meters

## Moving down multiply!

Each step is 10 times the one which preceds it. A centimeter (cm) is 10 times a millimeter (mm). The kilometer (km) is on the third step from the meter and is 1000 times a meter (m).

EXAMPLES: (count the steps)

7km = 1000 X 7m = 7,000m 12cm = 10 X 12mm = 120mm 8m = 100 X 8cm = 800mm

EXERCISE SET 1

3. 
$$5m = 5 \times 100 = 500$$
cm

$$6. \quad 1m = \underline{\qquad} \quad mm$$

$$8. 7m = mm$$

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Lesson Seventeen

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I.

#### Moving up divide! II.

For one step up you divide by 10, 2 steps divide by 100, 3 steps divide by 1000.

## EXAMPLES:

$$2000 \div 1000 = 2m$$

$$40 \text{ mm} = \frac{?}{10} \text{ cm} = \frac{40 \text{ cm}}{10} = 4 \text{ cm}$$

$$8000m = ? km = \frac{8000m}{1000} = 8km$$

## EXERCISE SET 2

2. 
$$500cm = m$$

4. 
$$4000mm = \frac{4600}{1000} = 4 m$$

6. 
$$75,000m = km$$

III. CONVERTING TO SMALLER OR LARGER UNITS OF LENGT	III.	CONVERTING	TO SMALLER	OR LARGER	UNITS OF	LENGT
---	------	------------	------------	-----------	----------	-------

3.79 km =\_\_\_\_ m

b. 8.7 mm = \_\_\_\_ cm

Think, km is a larger unit than m so you must multiply. Count the steps down from km to m. There are 3 so multiply by 1,000 3.79 km X 1,000 = 3,790 m

Think mm is smaller than cm so you divide. There is one step so divide by 10  $8.7 \, \text{mm} \div 10 = .87$ 

To convert to a smaller unit, multiply by 10, 100 or 1,000. To convert to a larger unit, divide by 10, 100 or 1,000.

10,101 m = km

m is smaller than km so you There are 3 steps so divide by 1,000  $10,101 \text{ m} \div 1,000 = 10.101 \text{ km}$ 

d.  $0.29 \text{ km} = \underline{\hspace{1cm}} \text{cm}$ 

km is larger - multiply There are 5 steps  $0.29 \text{ km X } \underline{100,000} = 29,000 \text{ cm}$ 

#### Complete.

1. 7.01 m = 7.01, = 701 cm

3. 0.68 cm = \_\_\_\_\_ mm

5. 0.27 m = \_\_\_\_dm 7. 60.4 m = \_\_\_\_\_\_ cm

km

9. 422 m =

m 11. 0.53 km = \_\_\_\_

13. 14 dm = \_\_\_\_\_ cm15. 4,300 cm = \_\_\_ dm

mm 17. 0.65 m = \_\_\_\_\_

19.7.1 cm = \_\_\_\_\_ mm

21. 9.2 km = \_\_\_\_\_ m

cm 23. 8,475 mm =

2. 4,000 cm = 4600 = 40m

4. 3,000 mm = \_\_\_\_

). 909.8 cm = \_\_\_\_ m.

8. 5,389 m =

10. 22.5 m = \_\_\_\_

12. 0.017 m = \_\_\_\_\_ 14.89 cm = \_\_\_\_ m

16. 213 nm =

18. 0.03 cm = \_\_\_\_\_  $\mathbf{m}$ 

20. 32.6 km = \_\_\_\_\_ m

22. 0.34 km = \_\_\_\_\_ cm

24. 6.5 m = \_\_\_\_\_

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Lesson 17

### IV. CHOOSING THE BEST UNIT OF LENGTH

Write meter(s), centimeter(s), millimeter(s), or kilometer(s) in each blank so that the sentence makes sense.

1.	Jane said, "Last year on vacation we traveled 2500 in our car."	more than	
2.	The Hogen's swimming pool is 2.5		deep.
3.	My new pencil is 18lo	ng.	
4.	The hot dogs I buy are 22	long.	
5.	This crisp cracker is 3t	hick	
6.	Joan, my friend in the sixth grade, is 152.4 _ tall.		
7.	John's old car has been driven more than 100,0	00	
8.	This drive ay is 20.8 wide.	long and	
9.	My father's arm is almost one		long.
10.	This page is 21.5 wide.		
11.	The bee is long.		
12.	The marathon race course is 31.5	1	mg.
13.	The jump rope used at recess time was 235 long.		
14.	Many ants are about sevenin length.	<del>_</del>	
15.	Matilda gan almost 250ing lot.	across	the park-

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Lesson Seventeen





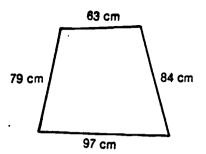
#### LESSON EIGHTEEN

TO THE PARENT:

In this lesson your child will find perimeters. Remind your child that

pe rim eter is the

distance around a figure.



I.

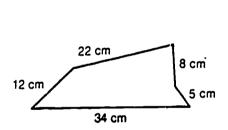
To find the perimeter add the lengths of the sides.

63 cm 84 cm 97 cm + 79 cm

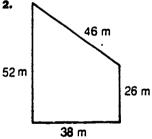
The perimeter = 323 cm

Find the perimeters.

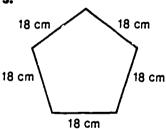
٧.



2



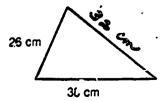
3



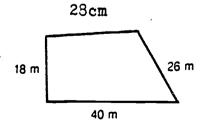
P = \_\_\_\_

P = \_\_\_\_

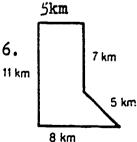
4.



5.



...



P \* \_\_\_\_\_

P = \_\_\_\_\_

P = \_\_\_\_

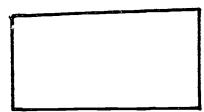
17 A 1400	•
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Measure these with your centimeter ruler to the nearest mm and then find the perimeter.

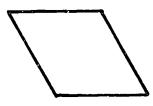
7.



8..



9.



P = \_\_\_\_

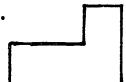
P = \_\_\_\_

P =			

10.



11.



12.



P = \_\_\_\_

P = \_\_\_\_

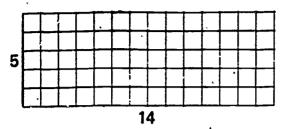
P = \_\_\_\_

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#### II.

## Finding the Perimeter of a Rectangle

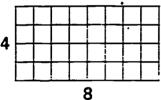
The perimeter of a rectangle is the sum of the lengths of its sides.



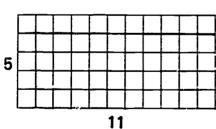
The perimeter of the above rectangle is 38 units.

Find the following perimeters.

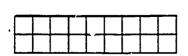
1.



2.

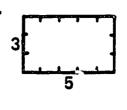


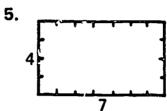
· 3.



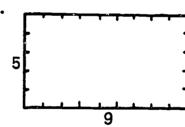
name

4.

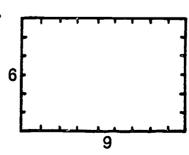




6.



7.

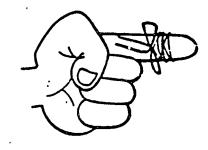


## LESSON NINETEEN



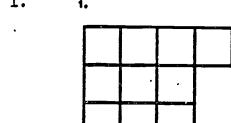
TO THE PARENT: In this lesson your child will find areas of squares and rectangles.

Emphasize that area is what is contained inside a figure.

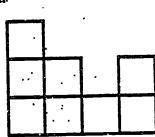


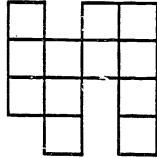
Area is measured in <u>square</u> units.

Count the squares in these figures. Each square is a square centimeter.



2.





 $A = cm^2$ 

$$A = \underline{\qquad} cm^2$$

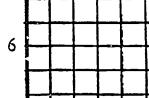
 $A = \underline{\qquad} cm^2$ 

Find the Area of a Square

#### EXAMPLE 1:

Find the area of this square. Count the squares. Notice we could find the area a quicker way.

 $6 \times 6 = 36 \text{ sq. units}$ 



36 square units

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Lesson Nineteen

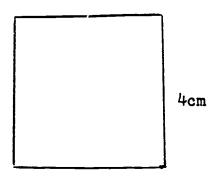


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## EXAMPLE 2:

Find the area of this square.

$$4cm \times 4cm = 16 cm^2$$

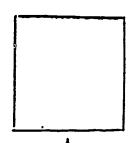


4cm

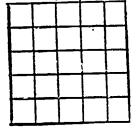
#### II. EXAMPLE 3:

Find the area of a square with each side 7 inches.

7 in. X 7 in. = 49 sq. in.



**EXERCISES** 



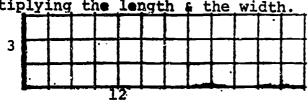
2.



Measure a side of the square above with a cm ruler and then find the area.

## III FINDING AREA

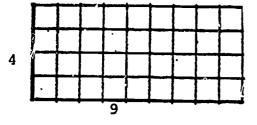
You can find the area of a rectangle by multiplying the length & the width.



 $12 \times 3 = 36$ 

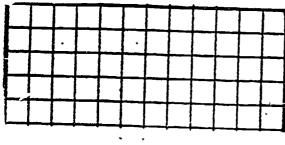
The area of the rectangle above is 36 square units.

ī.



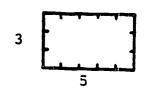
\_\_\_\_\_ square units

2.



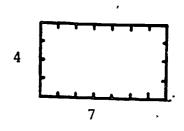
\_\_\_\_\_ square units

4.



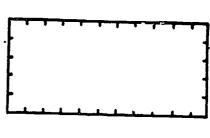
\_\_\_\_\_ square units

5.



\_\_\_\_\_ square units

6.



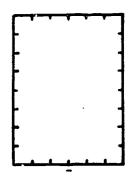
square units

3.



\_ square units.

7.



square units

Hampton City Schools Mathematics Department

Lesson Nineteen

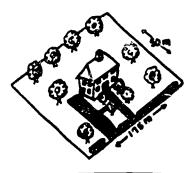
	NAME
Use your ruler to find the area of these polygons in square centimeters.	
1square centimeters	2square centimeters
3. square centimeters	4square centimeters
6 cm	Cut the region on the TOP into three (3) pieces to make it fit the region on the BOTTOM.
cm 9 cm  Hampton City Schools Mathema	tics Department Lesson Nineteen

'n.

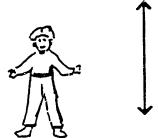
#### LESSON TWENTY

TO THE PARENT: In this lesson your child will determine the appropriate unit in which to measure length. Your child might need to review the units in Lesson 16.

I. These are only diagrams of "real" objects. Circle the best unit of measure to use for the "real" object.



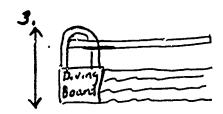




1 mm 1 cm (1 m)



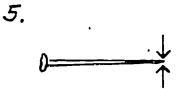
200 mm 200 cm 200 m



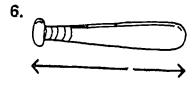
10 cm 10 m 10 km



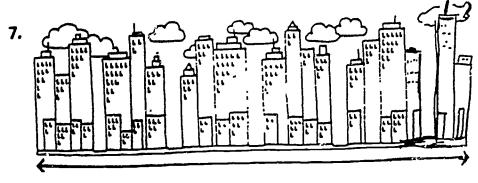
99 mm 99 cm 99 m



1 mm 1 cm 1 m



100 mm 100 cm 100 m



I cm 1 m 1 km

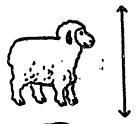
Hampton City Schools Mathematics Department

Lesson Twenty



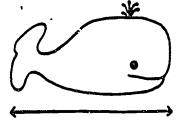
Metric Units of Length: Circle the most II. reasonable length for the items pictured below.





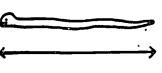
75 m 75 min (

2.

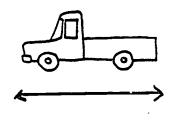


22 cm 22 m 22 km

3.



463 mm 463 cm 463 m

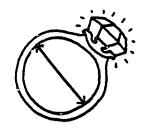


5 cm 5 m 5 km



30 mm 30 cm 30 m

6.



7 mm 7 cm 7 m

7.



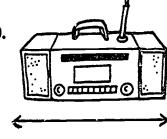
16 mm 16 cm 16 m

8.



167 mm 167 cm 167 m

9.



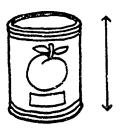
95 mm 95 cm 95 m

10.

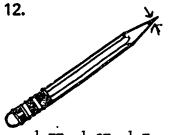


76 mm 76 cm 76 m

11.



165 mm 165 cm 165 m



1 mm 1 cm 1 m



500 cm 500 m 500 km

Mampton City Schools Mathematics Department

Lesson Twenty



				**** TM	22	T TRAT CATE
<b>~~~</b>	CHOOSING	THE	BEST	UNTT	UF	
111.				<u> </u>		

Write mater(s), centimeter(s), millimeter(s) or kilometer(s) in each blank so that the sentence makes sense. Also write the answers on the answer sheet. Fred's old car has been driven more than 100,000 1. Sue said, "Last year on vacation we traveled more than 2,500 2. \_\_\_\_ in our car. Tom, my friend in the sixth grade, is 158 \_\_\_\_\_\_tall. 3. The tumbling mat used in physical education is 200 \_\_\_\_\_long. 4. The cookie is 4 \_\_\_\_ thick. 5. The mosquito is four \_\_\_\_\_long. 6. My mother's shoe is about 20 \_\_\_\_\_ long. 7. The diving pool at the "Y" is 3 \_\_\_\_\_ deep. 8. Our house is 20 \_\_\_\_\_ long. 9. My new ballpoint pen is 18 \_\_\_\_\_long. 10: The Boston Marathon is run on a course 31.5 \_\_\_\_\_ 11. My fingernail is about 10 \_\_\_\_\_ wide. 12. The hot dogs my mother cooks are about 15 \_\_\_\_\_long. 13. Joe ran almost 230 \_\_\_\_\_ across the playground to 14. the bus. This page is about 22 \_\_\_\_ wide. 15.

Hampton City Schools Mathematics Department

Lesson Twenty



-3-

#### LESSON TWENTY-ONE

TO THE PARENT: In this lesson your child will learn about metric units of weight (mass) and capacity and will read a thermometer.

#### CAPACITY

How big is a liter? Let's make a box which will show you.

- 1. You will need a piece of paper which is 3 decimeters (30 centimeters) in length and width. Measure off using your metric ruler 3 squares with sides 10cm each across the bottom and 3 squares with sides 10cm each as shown in the diagram. Cut as shown.
- Before folding paste it on cardboard to make it stronger and cover with self adhesive paper or plastic to make it stronger.
- 3. Fold as shown and tape edges securely.
- 4. You now have a 10cm X 10cm X 10cm box which holds 1 liter.

If you cannot waterproof the box use a 1 pound coffee can as a model. It holds 1 liter.

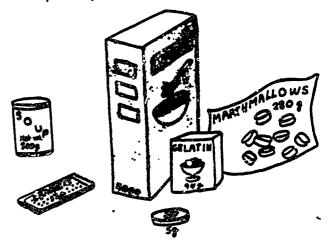
Try this experiment.

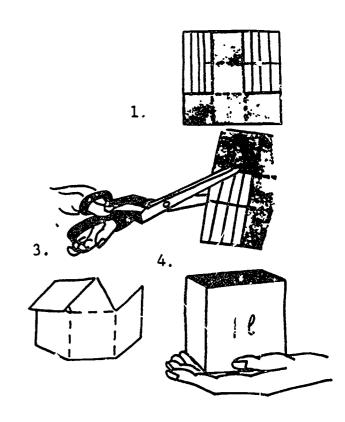
Fill a quart container with sand, rice or beans. Then empty it into the liter box. Which holds more, a liter or a quart?

about the same as 250 milliliters.

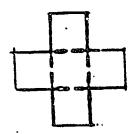


The gram(g) is used to measure the mass of things that are not very "heavy."





- 1. Sut out:
- Fold on dotted lines to make a cube without a top. Cover with clear adhesive tape before taping to make the box waterproof.

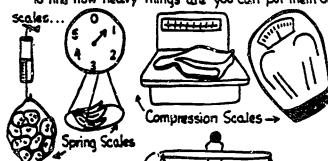


This little box is lcm X lcm X lcm. It holds I milliliter of liquid. I milliliter of water weighs I gram.

WEIGHT (MASS)

# Scales and Balances

To find how heavy things are you can put them on



The following items weigh about 1 gram (g):

1 shelled peanut

1 dollar bill

1 potavo chip

l package of sugar sub-

1 M & M

or on balances using metric "weights" or mass pieces.



I. Look on the kitchen shelf to find some canned and boxed folds. List at least five here with their weight.

1.	
<b>.</b>	

2.

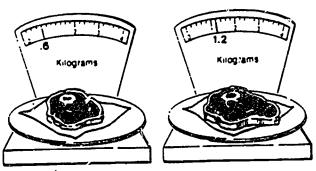
3. \_\_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

The Kilogram (1000 grams) is used to measure heavier things.

Meat: How many kilograms of meat in all?



People: A football player weighs about 100 kg.

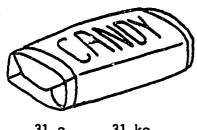
Hampton City Schools Mathematics Department

Lesson Twenty-One

Weight: Gram and Kilogram II. Circle the better measure of weight for each object.

name.

1.



31 g 31 kg 2.

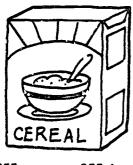


35 g 35 kg

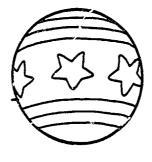
3.



40 g 40 kg



255 g 255 kg 5:



566 g 566 kg 6.



750 g 750 kg

7.



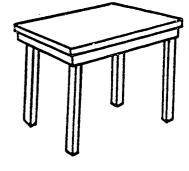
1225 g

1225 kg

8.

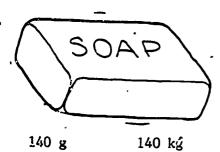


1 g 1 kg 9.



5 g 5 kg

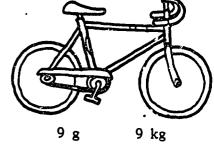
10.



11.

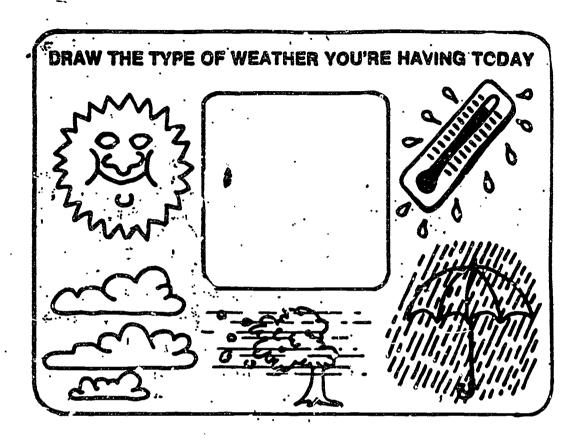


18 g 18 kg 12.



Hampton City Schools Mathematics Department -3Lesson Tranty-One

#### TEMPERATURE

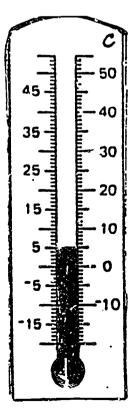


Reading Thermometers

Scales can be set up differently on thermometers. This one has a mark for each degree.

What temperature is shown?

5°C



Hampton City Schools Mathematics Department

Lesson Twenty-One

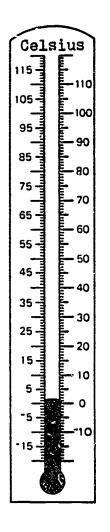
189

90

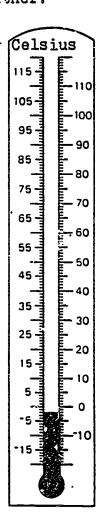
80

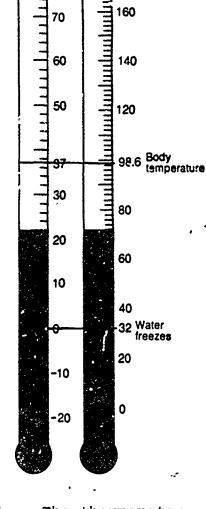
Celsius

- III. Read each thermometer and then complete each sentence.
  - is you ; need to wear a ccat scarf and mittens.



2. When the temperature is \_\_\_\_\_, it is ice skating weather.





Fahrenheit

200

180

212 Water boils

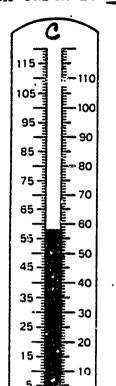
Note: The thermometer above is graduated every 2.

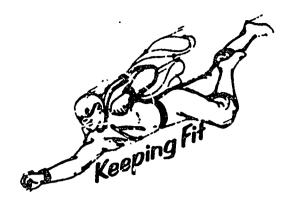
Hampton City Schools Mathematics Department

Lesson Twenty-One

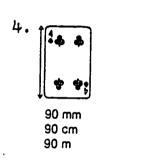
NAME	

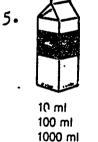
3. The highest outdoor temperature measured on earth is





Choose the best measure.







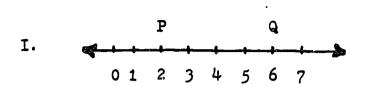


450 g 25° F 450 kg 25° C

If you have a thermometer,  $u_{-\beta}$  it to measure the following:

- 8. \_\_\_\_\_temperature indoors
- 9. \_\_\_\_\_\_ temperature outside in the shade
- 10. \_\_\_\_\_temperature outside in the sun
- 11. \_\_\_\_\_temperature in the refrigerator

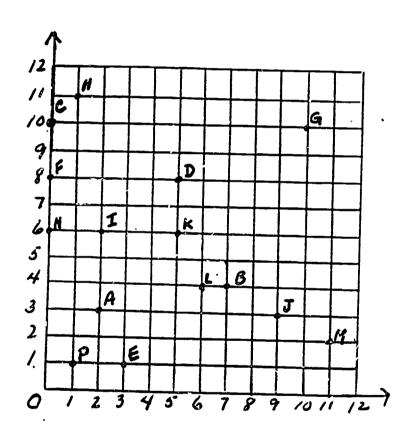
#### LESSON TWENTY-TWO



TO THE PARENT: In this lesson your child will graph points on a coordinate axis.

On the number line the coordinate of P is 2. What is the coordinate of Q?

#### PLOTTING USING COORDINATE AXES





Points on a coordinate are named by 2 coordinates. The first one is from 0 to the right, the second one is from 0 up.

- A (2,3) Move 2 to the right, and 3 up.
- B (7,4) Move ? to the right, and 4 up.
- C (0,10) Do not move from 0, go up to 10.

Writ	e the	coordinates	for	each.	of	the	lette	cs.		
D.	<del></del>	G.	·		_		J.		M.	
E.		Н.			-		K.		N.	
F.		_ <u></u> I.					T.,		p	

Hampton City Schools Mathematics Department

Lesson Twenty-two

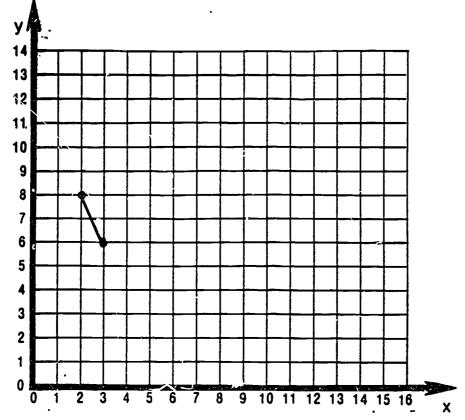
USING COORDINATES Where is the Go over (3). Go up [2]. Start at "•" is at 3, 2. The 6 5 4 3 2 Start 2 MATCH

Hampton City Schools Mathematics Department -2-

Lesson Twenty-Two

II. Name the picture.





Graph the picture. Find each point listed below. The first one has been done for you. Connect the points with straight lines in the order listed. Lift pencil when told to. Start a new line with the next group of points.

(2,8) (3,6) (1,6) (3,10) (1,10) (2,8) (8,10) (9,10) (9,12) (15,13) (15,11) (3,13) (3,11) (9,12) Lift pencil	Begin again (9,10) (11,10) (11,7) (14,7) (14,5) (12,3) (7,3) Lift pencil Begin again (2,8) (6,3) (7,3) (7,2) (5,2) Lift pencil	egin again. (14,3) (13,2) (7,2) Lift pencil Begin again (11,3) (11,2) Lift pencil Begin again (11,10) (12,10) (14,8) (14,7) End
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Hampton City Schools, VA

Math Department Lesson Twenty-two

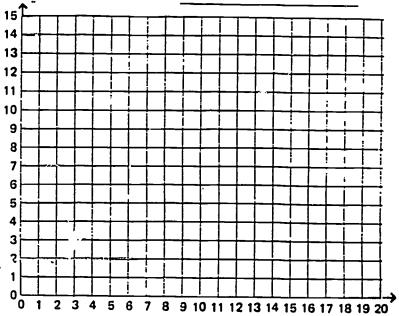


#### PICTURE GRAPHS

Mark each ordered pair. Connect the points in order. Begin with column one.

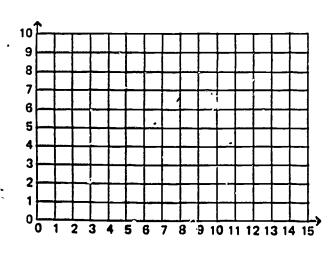
2. What has no hands but can open a door?

(2,6) (6,6) (8,8) (8,9) (20,9) (18,11) (17,10) (16,11) (15,10) (14,10) (13,11)	(12,10) (11,10) (10,11) (8,11) (8,12) (6,14) (2,14) (0,12) (0,8) (2,6)
(13, 11)	

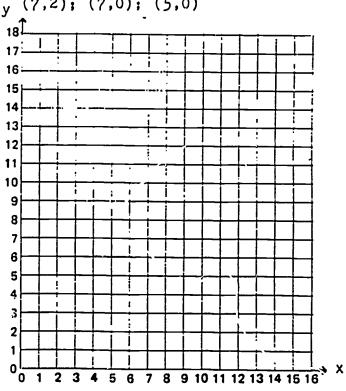


Moves on water.

(0,2)	(12,7)	(8,10)	(3,7)
(2,0)	(10,6)	(5,8)	(1,6)
(13,0)	(12,5)	(8,6)	$(\hat{1}, 5)$
(15,2)	(12,2)	(8,2)	(3,2)
(12,2)	(8,2)	(3,2)	(0,2)
-/	(0, -/	(3, -)	(0,2)



4. Connect in order given as the
 points are plotted.
 (5,0); (5,2); (0,2); (2,4);
 (1,4); (3,6); (2,6); (4,8);
 (3,8); (6,12); (9,8); (8,8);
 (10,6); (9,6); (11,4); (10,4); (12,2)
 y (7,2); (7,0); (5,0)



Hampton City Schools Mathematics Department Lesson Twenty-Two



	NAME		
3.	Mrs. Saddler has 180 pounds of feed to divide equally among 16 horses. How much feed can she give each horse?		There were 31 swimming classes, with 16 children in each class. How many children took swimming?
Giv	en:	Give	n:
?:		?:	
5•	The elephant is how much taller than the lion?	6.	Joe had 29 old coins. He bought more coins and now has 54 in all. How many coins did he buy?
260	cm	Cive	on:

Hampton City Schools Mathematics Department Lesson Twenty-Three -2-



Given:

#### LESSON TWENTY-THREE



TO THE PARENTS: In this lesson your child will solve word problems involving whole numbers. Alert your child to the many real life problems encountered each day.

#### PROBLEM SOLVING

READ

Step 1: Read the problem. Ask yourself what you are given and what you are asked to find.

EXAMPLE: In the Hampton School, there were three fifth grades with 29 students in one class, 33 students in another, and 31 in another. How many fifth graders attended the fifth grade in Hampton School?

What are you given?

29 students

33 students

31 students

What are you asked to find? How many fifth grade students altogether.

- I. EXERCISE SET 1
  Tell what you are given and what you are asked to find.
  - 1. Joe sold 72 papers on Monday, 87 on Tuesday, 77 on Wednesday, and 92 on Thursday. How many papers did he sell in four days?

2. The three parking lots had spaces for cars as follows: Lot A, 32 spaces; Lot B, 60 spaces; Lot C, 48 spaces. How many spaces for cars are available on all three lots?

Given: 72 screw 87 pasers	avaitable on all three lots:
77	Given:
77 poer, 92 poses	
?: How many on	
four day?	?:

Hampton City Schools Mathematics Department Lesson Twenty-Three



NAME		

PLAN

Step 2: What operation will you use to solve the problem?

Fred had 65 stamps in his collection. He got more EXAMPLE: stamps for his birthday. Then he had 126 stamps. How many stamps did Fred get for his birthday?

You now have 126 stamps total. You had 65. You are asked to find the difference.

Subtract is the answer.

EXERCISE SET 2 II. Tell what operation you could use to solve the problem.



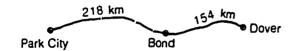
2. There are 198 campers in archery classes, with 18 campers in each class. How many archery classes were there?

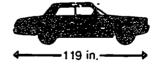
divide Operation:

Operation:

How far is it from Park City to Dover?

The car is how much longer than the bicycle?







Operation:

Operation:

56 students went on a field trip. 4 students were assigned to each car. How many cars were needed?

6. Jody guessed that Ellen weighs 75½ pounds. Ellen's actual weight is 80½ pounds. Find the difference between Jody's guess and Ellen's actual weight?

Operation:	
~ ~ ~ ~ ~ ~ · · · · · · · · · · · · · ·	

Operation:

Hampton City Schools Mathematics Department

Lesson Twenty-Three



NAME\_\_\_\_\_

#### SOLVE

Step 3: Solve the problem.

EXAMPLES:

1. One Saturday John sold 78
papers. Donald sold 67
papers, and Michael sold
91 papers. How many papers
did the boys sell altogether?

READ Given: 78 papers 67 papers 91 papers

Question: How many papers did the boys sell altogether?

PLAN You must add.

SOLVE 78 67 + 91 236

The boys sold 236 papers altogether.

2. One hot-dog vendor sold 18 trays of hot dogs. There were 32 hot dogs on each tray. How many hot dogs did he sell?

READ
Given: 18 trays sold
32 not dogs in each
tray.

Question: How many hot dogs did he sell?

PLAN You multiply the number of hot dogs in each tray by the number of trays.

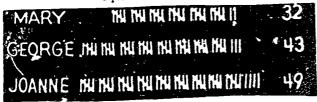
SOLVE 18 % 32 = 576 hot dogs

So, 576 hot dogs were sold.

III. EXERCISE SET 3
Solve these problems. Show your work.

1.

FOR STUDENT COUNCIL PRESIDENT



Find the total votes cast for Student Council President.

Hampton City Schools Mathematics Department Lesson Twenty-three



Ringell!



Sandy 9 ft

-Ian 7 ft

\_Naomi 5 ft

How many feet higher did Sandy get than Naomi?

3. Alice sold 47 boxes of hockey buttons. There were 50 buttons in each box. How many buttons did she sell?

4.



The city of San Antonio was founded in 1718. Houston became a city 119 years later. In what year did Houston become a city?

Hampton City Schools Mathematics Department Lesson Twenty-Three

- 5. The camp cook expected 285 people for lunch. He cooked 3 ears of corn for each person. How many ears of corn did he cook?
- 6. Dan bought 19 packages of baseball cards. There were 5 cards in each package. How many cards did he buy?
- 7. If the trail is marked into 25-foot sections, how many sections will there be?



8. Mary had 496 stamps. She bought 117 stamps. How many stamps did she have then?

#### CHECK

Step 4: Check to see if your answer is reasonable.





Find the dog's weight.

Subtract: 112 - 79 - 33 lbs

s Is your answer reasonable?

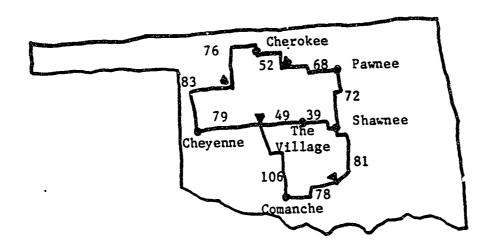
YES. The dog weighs less than the girl plus the dog.

How much does the dog weigh?

Hampton City Schools Mathematics Department Lesson Twenty-Three -6-

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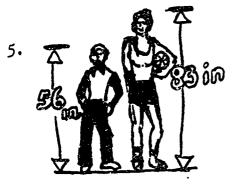
- IV. EXERCISE SET 4
  Solve these. Ask yourself if the answer is reasonable.
  - 1. Tim bought 16 packages of football cards. There were 6 cards in each package. How many cards did he buy?
- 2. One day, 112 people separated into 8 equal groups to go hiking. How many people were in each group?



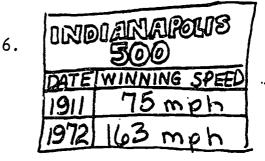
Use the map to find the shortest distance between:

3. Cherokee & Pawnee

4. Cherokee & Comanche



How much taller is the basketball player?



By how much did the winning speed increase?

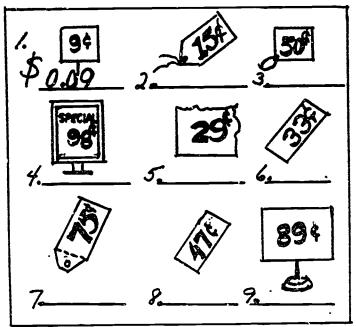
Hampton City Schools Mathematics Department Lesson Twenty-Three



#### LESSON TWENTY-FOUR

TO THE PARENT: In this lesson your child will solve application problems. Many will involve addition and subtraction of decimals.

I. Write each price with a dollar sign and a decimal point.



14. two dollars and sixtyfour cents



- 10. eight dollars and sixty-seven cents
- 11. ninety-three cents
- 12. four dollars and nine cents
- 13. one dollar and four cents
- 15. one dollar and ten cents

To solve problems with decimals

- . Use the four step method.
- . Line up the decimal points in addition and subtraction.

Hampton City Schools Mathematics Department Lesson Twenty-Four

#### EXAMPLE 1:



Betty bought a ticket for \$1.25. She gave the cashier a \$5 bill. What was her change?

READ \$1.25 cost of ticket \$5 given the cashier How much change?

PLAN You are asked about change from \$5 so you subtract.

SOLVE \$5.00 - 1.25 \$3.75

CHECK \$5 - \$1 is \$4 So, \$3.75 is reasonable

#### TWO STEP PROBLEMS





For picnics, Mrs. Booth bought a portable cooler for \$22.50 and a large jug for \$5.62. She gave the cashier \$30.00. How much change did she get back?

READ: \$22.50 cost of cooler 5.62 cost of jug

\$30.00 given the cashier

PLAN You are asked to find change from 2 purchases.

add then subtract

\$0LVE \$22.50 \$ + 5.62 -\$28.12 \$

\$30.00 - 28.12 \$ 1.88

CHECK Purchases are about \$22 and \$6 \$22 +\$6 =\$28

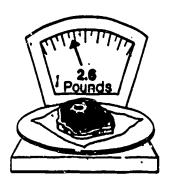
\$ 30 -\$ 28 =\$2

So, \$1.88 is reasonable.

Hampton City Schools Mathematics Department Lesson Twenty-Four

# II. EXERCISES Solve these problems. Show your work.

1. How much pot roast did Kristie buy if she bought both roasts?



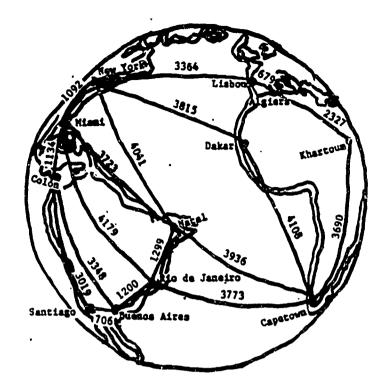


2.

Camera A costs \$17.95. Camera B costs \$31.95. How much cheaper is Camera A?

- 3. Dana saves \$0.25 each week. How much will Dana save in 8 weeks?
- 4. The Markhams bought 5 hot-turkey sandwiches at \$1.85 each. What was the total cost?





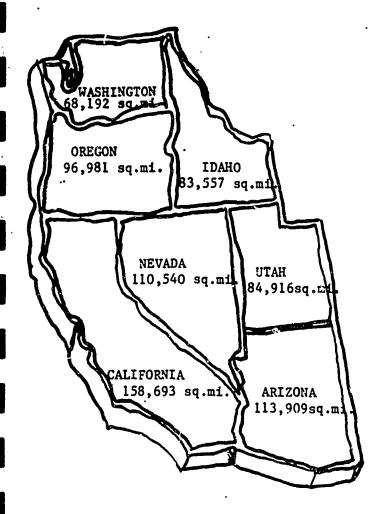
The picture above gives airline distances in miles between certain cities. Use the picture to answer the questions below.

- 5. What is the distance between New York and Capetown by way of Natal? ABy way of Dakar?
- 6. How much shorter is the trip from New York to Lisbon than the trip from New York to Natal?

Hampton City Schools Mathematics Department Lesson Twenty-Four



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This map shows the area of each state. Use the picture to answer these questions.

- 7. What is the land area of each of these states?
  - a. Arizona\_\_\_\_
  - Utah \_\_\_\_
  - c. California\_\_\_\_
  - d Washington\_\_\_\_\_
- 8. Which state has the largest land area?
- 9. What is the total land area of California, Nevada, Utah, and Arizona?

Hampton Clty Schools Mathematics Department Lesson Twenty-Four -5-

III. Find the sale price.

1. 1 OFF Reg. \$8.48 2.

SAVE 99¢

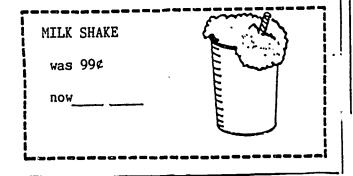


WAS \$8.59

NOW

Clip the coupon worth 39¢.

Sale price



SAVE \$2.99

Reg. \$8.29

Sale price

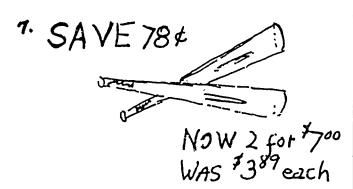


Check these ads.

Write "YES" if the ad is correct; write "NO" if incorrect.









HAMPTON RESTAURANT SPECIAL CRAB CAKE Reg 440 | DINNER NOW \$389

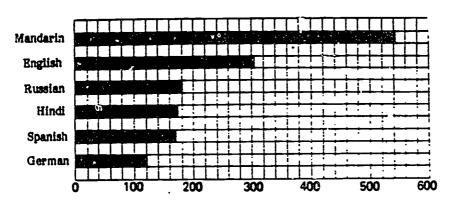


#### LESSON TWENTY-FIVE

TO THE PARENT: In this lesson your child will answer and create problems based on information selected from charts, tables, maps, and graphs.



#### I. BAR GRAPHS



Languages Spoken In the World

Answer the questions about the graph above.

1. Which language is spoken by more people than any other?

Mandarin (Chinese)

- 2. How many languages are spoken by more than 200 million people?
- 3. Make up your own question.

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Answer the questions about the graph.

- 1. How many people have hazel eyes?
- 2. How many more people have brown eyes than blue?

Make up two questions about the graph.

3.

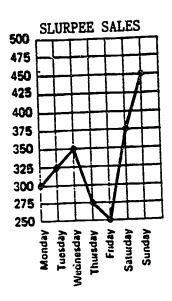
4.

Hampton City Schools Mathematics Department Lesson Twenty-Five

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# III. LINE GRAPHS

Number of Slurpees



Answer the questions about the graph.

- 1. On what day were the least Slurpees sold?
- 2. How many more Slurpees were sold on Sunday than on Wednesday?

Write two questions about the graph.

3.

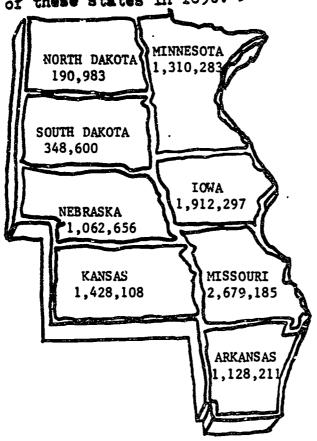
4.

Hampton City Schools Mathematics Department Lesson Twenty-Five

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## IV. MAPS

This map shows the number of people who lived in each of these states in 1890.



- 1. Which state had the most people?
- 3.
- 4.

Hampton City Schools Mathematics Department Lesson Twenty-Five

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ν.	Marlow .	Old Mill		Benton
			154 km	7
	125 km			

Write two questions about this map.

1.	

2.	

## VI. TABLES AND CHARTS

2,200,000,000
750,000,000
330,000,000
300,000,000
240,000,000
21,000,000

Estimated Population

Answer the questions about the chart.

- 1. Where do the most people live?
- 2. Do more people live there than the other regions together?

3.	Make	up	your	own	question	about	one	Char	
	*********								

The earth: ... VII. Planetary symbol 🕀

1 inch represents 8000 miles

PLANET	SYMBOL	NUMBER OF TIMES THE EARTH'S DIAMETER
Mercury	130	.38
Venus	Ç	.95
Mars	ď	.53
Jupiter	4	11.19
Saturn	b	9.5
Uranus	ġ	3.7
Neptune	Ψ	3.9
Pluto	5	.5
Earth		1.00

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1. Name the planets from largest to smallest.

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٤.	which	r d r	.ane t	: 13	about	tne	same
	size	as	the	ear	th?		

		planets	that h	ave	diameters	about	2	the	size	οî
earth	ເຮ.									

4.	Name	the	two	plane	ts wh	ich	have	diameters	nearly	4	times
	as la	rge	as ·	the ea	rth's	dia	umeter	<b></b>			

<u> </u>	



CONGRATULATIONS!!!!!

You have now completed . . . . .

MATH BY MAIL

Hampton City Schools Mathematics Department Lesson Twenty-Five -6-

which planet is about the same